CLAIMS

What is claimed is:

1. A method for generating a marked-up document comprising the steps of:

receiving a digital stream having at least one tone;

generating a tone symbol document based on the digital stream; wherein the tone symbol document includes a tone symbol for representing each tone in the digital stream; and

generating a marked-up document based on the tone symbol document.

2. The method of claim 1 wherein the step of receiving a digital stream having at least one tone includes the steps of:

generating a digital audio stream having voice information;

generating at least one tone; and

merging the tone with the digital audio stream having voice information.

3. The method of claim 1 wherein the step of generating at least one tone includes the step of generating a Dual Tone Multi-Frequency (DTMF) tone.

4. The method of claim 1 wherein the step of generating a tone symbol document based on the digital stream includes the steps of:

converting the voice information into corresponding text; and

converting each tone into a corresponding tone symbol.

5. The method of claim 4 wherein the step of converting each tone into a corresponding tone symbol includes the steps of:

accessing a tone to tone symbol mapping for associating at least one tone with a corresponding tone symbol; and

converting the tone into a corresponding tone symbol based on the tone to tone symbol mapping.

6. The method of claim 1 wherein the step of generating a marked-up document based on the tone symbol document includes the steps of:

accessing context-based mapping information for specifying at least one mark-up command for a particular context; and

converting the tone symbol into a corresponding mark-up command based on the context-based mapping information to generate a context sensitive document.

7. The method of claim 1 wherein the step of generating a marked-up document based on the tone symbol document includes the steps of:

generating one of an XML document, an HTML document, and other mark-up language document.

8. The method of claim 6 wherein the step of converting the tone symbol into a corresponding mark-up command based on the context-based mapping information to generate a context sensitive document includes

receiving context information that specifies a first context;

generating a first set of mark-up commands for each tone symbol associated with the first context;

receiving context information that specifies a second context; and

generating a second set of mark-up commands for each tone symbol associated with the second context.

9. A dictation system comprising:

dictation software for receiving a stream of voice information and responsive thereto for generating text corresponding to the voice information; and

a tone-based mark-up facility for receiving at least one tone and automatically converting each tone into one or more mark-up commands that operate on the text.

10. The dictation system of claim 9 wherein the tone-based mark-up facility includes

a tone symbol document generator for receiving a digital stream having at least one tone and responsive thereto for generating a tone symbol document having a plurality of words and a tone symbol corresponding to each; and

a mark-up document generator coupled to the tone symbol document generator for receiving the tone symbol document and responsive thereto for automatically generating a marked-up document that has at least one mark-up command that corresponds to the tone symbol.

11. The dictation system of claim 10 wherein the mark-up document generator receives context information and selectively converts each tone symbol into one or more mark-up commands based on the context information.

12. The dictation system of claim 10 wherein the mark-up document generator generates a first mark-up command when the context information specifies a first context and a second mark-up command when the context information specifies a second context.

13. The dictation system of claim 9 further comprising:

a source for generating tones.

14. The dictation system of claim 9 further comprising:

a digital recorder for receiving spoken words and generating a corresponding audio digital stream.

15. The dictation system of claim 10 wherein the marked-up document is one of an XML document, an HTML document, and other mark-up language document.

16. A system for automatically generating marked-up documents based on a digital stream having at least one tone comprising:

dictation software for receiving the digital stream and responsive thereto for generating corresponding text; and

a tone-based mark-up facility for receiving the digital stream, converting each tone in the digital stream into a tone symbol, and converting each tone symbol into at least one mark-up command.

17. The system of claim 16 wherein the tone-based mark-up facility includes

a tone symbol document generator for receiving the digital stream having at least one tone and responsive thereto for generating a tone symbol document having a plurality of words and a tone symbol corresponding to each tone; and

a mark-up document generator coupled to the tone symbol document generator for receiving the tone symbol document and responsive thereto for automatically generating a marked-up document that has at least one mark-up command that corresponds to the tone symbol.

18. The mark-up system of claim 17 wherein the mark-up document generator receives context information and selectively converts each tone symbol into one or more mark-up commands based on the context information.

19. The mark-up system of claim 17 wherein the mark-up document generator generates a first mark-up command when the context information specifies a first context and a second mark-up command when the context information specifies a second context.

20. The dictation system of claim 16 further comprising:

a source for generating tones; and

a recorder for receiving spoken words and generating a corresponding audio stream.